

Renal Epithelial Cell Media / Media 2



Instruction Manual

■ Renal Epithelial Cell Growth Medium

Product	Size	Catalog Number
Renal Epithelial Cell Growth Medium (Ready-to-use)	500 ml	C-26001
Renal Epithelial Cell Growth Medium Kit	500 ml	C-26011
Renal Epithelial Cell Basal Medium	500 ml	C-26021
Renal Epithelial Cell Basal Medium, phenol red-free	500 ml	C-26022
Renal Epithelial Cell Growth Medium SupplementMix	for 500 ml	C-39604
Renal Epithelial Cell Growth Medium SupplementPack	for 500 ml	C-39600

■ Renal Epithelial Cell Growth Medium 2

Product	Size	Catalog Number
Renal Epithelial Cell Growth Medium 2 (Ready-to-use)	500 ml	C-26030
Renal Epithelial Cell Growth Medium 2 Kit	500 ml	C-26130
Renal Epithelial Cell Basal Medium 2	500 ml	C-26230
Renal Epithelial Cell Basal Medium 2, phenol red-free	500 ml	C-26235
Renal Epithelial Cell Growth Medium 2 SupplementMix	for 500 ml	C-39606
Renal Epithelial Cell Growth Medium 2 SupplementPack	for 500 ml	C-39605

Recommended for

- Human Renal Epithelial Cells (HREpC)
- Human Renal Cortical Epithelial Cells (HRCEpC)

Product Description

PromoCell Renal Epithelial Cell Growth Medium is a serum-free medium for the basic cultivation of epithelial cells from the kidneys. PromoCell Renal Epithelial Cell Growth Medium 2 is an optimized low-serum medium that additionally contains Epinephrine. The combination of low serum and selected growth factors ensures successful growth *in vitro* making the Renal Epithelial Cell Growth Medium 2 the first choice for PromoCell Renal Epithelial Cells.

The Renal Epithelial Cell Media are optimized for primary human cells, but can also be used for porcine and mouse renal epithelial cells.

PromoCell Renal Epithelial Cell Media are available as Medium (Ready-to-use) or as Medium Kit.

The Medium (Ready-to-use) consists of a 500 ml bottle of Basal Medium and one vial of SupplementMix. The Medium Kit consists of a 500 ml bottle of Basal Medium and the SupplementPack (a set of individual vials with pre-measured supplements) allowing the user full control over the media formulation. Adding the SupplementMix or the SupplementPack to the Basal Medium results in the complete Growth Medium. Basal Medium (with or without phenol red) as well as SupplementMix and SupplementPacks can also be purchased separately.

Final supplement concentrations (after addition to the medium)

	Renal Epithelial Cell Growth Medium	Renal Epithelial Cell Growth Medium 2
■ Fetal Calf Serum	—	0.05 ml / ml
■ Epidermal Growth Factor (recombinant human)	10 ng / ml	10 ng / ml
■ Insulin (recombinant human)	5 µg / ml	5 µg / ml
■ Epinephrine	—	0.5 µg / ml
■ Hydrocortisone	36 ng / ml	36 ng / ml
■ Transferrin, holo (human)	5 µg / ml	5 µg / ml
■ Triiodo-L-thyronine	4 pg / ml	4 pg / ml

Supplementation Details

PromoCell Renal Epithelial Cell Growth Media contain all the growth factors and supplements necessary for the optimal growth of human renal epithelial cells, e.g. Epidermal Growth Factor, Insulin, and Transferrin. Renal Epithelial Cell Growth Medium 2 is a low-serum medium that additionally contains Epinephrine (for details see the table above). PromoCell Renal Epithelial Cell Growth Media do not contain antibiotics or antimycotics and are formulated for use in an incubator with an atmosphere of 5% CO₂.

Preparation of the supplemented Medium for Use

Thaw the SupplementMix or SupplementPack at 15 to 25°C. Aseptically mix the supplement solutions by carefully pipetting up and down. Then, transfer the entire content of each supplement to the Basal Medium. Close the bottle and swirl gently until a homogenous mixture is formed.

Storage and Stability

Store the Basal Medium at 4 to 8°C in the dark and the SupplementMix or SupplementPack at -20°C immediately after arrival. Do not freeze the Basal Medium. If stored properly, the products are stable until the expiry date stated on the label. After adding the supplements to the Basal Medium, the shelf life of the complete medium is 6 weeks at 4 to 8°C. Do not freeze the complete medium.

For use, pre-warm only an aliquot of the complete medium and keep the remaining medium refrigerated at 4 to 8°C.

Note: The SupplementMix and SupplementPack are delivered thawed and can be frozen after arrival without losing any activity.

Quality Control

All lots of PromoCell Renal Epithelial Cell Media are subjected to comprehensive quality control tests using primary human renal epithelial cells. Each lot is

checked for growth promoting activity, adherence rate, and typical morphology of the tested renal epithelial cells. Approved in-house lots of media are used as a reference.

In addition, all lots of media have been tested for the absence of microbial contaminants (fungi, bacteria, mycoplasma).

Intended Use

The products are for *in vitro* use only and not for diagnostic or therapeutic procedures. For safety precautions please see appropriate MSDS.

Note: Due to their low serum content or the absence of serum, PromoCell media are not suitable for trypsin neutralization (e.g. when splitting the cells). Instead we recommend using our DetachKit (C-41200, C-41210, C-41220), which contains HEPES BSS, Trypsin/EDTA and Trypsin Neutralizing Solution.

If you require special media modifications, we offer a Custom Media Service starting at 10 bottles per order. Please ask for details.

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